Title:	European water quality monitoring
Lecture hours:	15
Study period:	Winter, summer
(summer/winter)	
Number of credits:	5
Assessment methods:	Graded credit
Language of instruction:	English
Prerequisites:	Course for the Earth and Environmental Sciences, especially for
	geography students
Course content:	Lecture part:
	1. European law (Water Framework Directive, Nitrogen Directive,
	etc.);
	2. Monitoring Program (monitoring system, water sampling, etc.);
	3. Water quality parameters (biological, physicochemical, and
	chemical- priority substances indicators);
	4. Evaluate water status (ecological and chemical water status).
	Field part:
	1. Field measurements of water quality (river or lake / basic
	physicochemical and biological indicators measurements).
Learning outcomes:	K01 – student knows the goals and tasks of environmental
	monitoring;
	K02 – student knows the principles of environmental monitoring;
	S01 – the student can carry out monitoring field research;
	S02 – student can assess the state of the environment
References:	The literature on the subject will be presented during the course.
	Directive 2000/60/EC of the European Parliament and of the
	Council establishing a framework for the Community action
	in the field of water policy.
	The State Environmental Monitoring Programme for years
	2020-2025, 2020, Chief Inspector of Environmental
	Protection, Warsaw.
	Habel M., Szatten D., Babiński Z., Nadolny G., 2021,
	Sediment Management in River Basins: An Essential Element
	of the River Basin Management Plans. In: Zeleňáková M.,
	Kubiak-Wójcicka K., Negm A.M. (eds) Quality of Water
	Resources in Poland. Springer Water. Springer, Cham.
	https://doi.org/10.1007/978-3-030-64892-3_12
	Czerebiej Z., Szatten D., 2015, Characteristic of
	environmental objectives of river's surface waters
	monitoring in water cycles 2010-2021 for kujavian and
	pomeranian voivodeship, Geography and Tourism, Vol.3,
	No.2, p.7-17, DOI: 10.5281/zenodo.46675
	Szatten D., Habel M., 2020, Effects of Land Cover Changes on
	Sediment and Nutrient Balance in the Catchment with

	Cascade-Dammed Waters, Remote Sensing, 12(20), 3414;
	https://doi.org/10.3390/rs12203414.
	 Fieldwork cards (provided by the teacher)
	Internet
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